

Water-dilutable coating agent for preparing the base layer of a multilayer coating

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Inventor(s): DREXLER HERMANN-JOSEF (DE); EBNER FRANZ (DE); HILLE HANS-DIETER (DE); ROTH ULRICH (DE)
Applicant(s):: BASF FARBEN & FASERN (DE)
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Abstract

A water-dilutable coating agent for preparing the base layer of a multilayer coating. The coating agent contains pigments and optionally flow-control agents, thixotroping agents, fillers, organic solvents and other customary auxiliaries. The coating agent contains as a binder an aqueous polyurethane dispersion which has a polyurethane resin acid number of 5 to 70 and which has been prepared by reacting: (A) a linear polyether diol and/or polyester diol having terminal hydroxyl groups and a molecular weight of 400 to 3,000 with (B) a diisocyanate in such a molar ratio that an intermediate product is formed which has terminal isocyanate groups, (C) and reacting the intermediate product with a compound which has two groups which are reactive toward isocyanate groups and at least one group which is capable of forming an anion and which has been neutralized with a tertiary amine before the reaction, converting the second intermediate product, obtained from (A), (B) and (C) into a predominantly aqueous phase and (D) reacting the isocyanate groups which are still present with a diamine and/or polyamine having primary and/or secondary amino groups.

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